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(71)Applicant : KOKUSAI DENSHIN DENWA CO  
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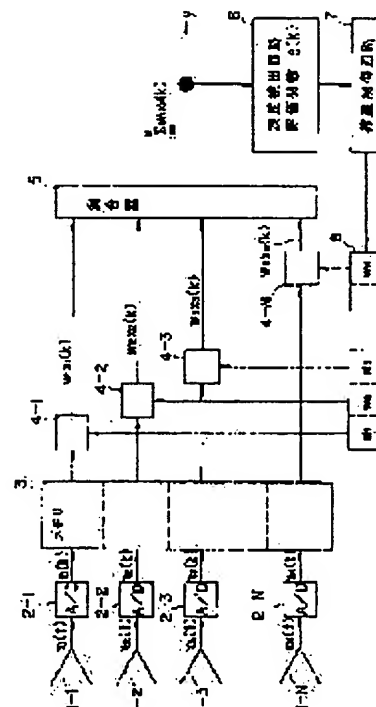
(72)Inventor : MINAMISONO KENICHI

## (54) ADAPTIVE ARRAY ANTENNA CONTROL SYSTEM

### (57)Abstract:

**PURPOSE:** To attain the communication of a high speed data even under multi- path environment by selectively receiving only a signal component with less relative delay time so as to reduce the effect of multi-path interference thereby improving an equivalent gain with the adaptive array antenna with a few elements.

**CONSTITUTION:** The directivity of the adaptive array antenna having plural antenna elements 1-1-1-N is devised so that the signals received by the plural antenna elements 1-1-1-N are used, the incoming direction of each signal component and its relative delay time having different incoming direction and delay time included in the received signals are estimated, the signal components included in the relative delay time period in which all power of the signal components included in a predetermined time width is highest are selected and the selected signal components are synthesized in-phase.



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